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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/478,136	01/05/2000	DAVID WILLIAM HOUSE	1420-2	1290
20575	7590 05/17/2006		EXAMINER	
	OHNSON & MCCOLLO	NI, SUHAN		
210 SW MOR PORTLAND,	RISON STREET, SUITE OR 97204	400	ART UNIT	PAPER NUMBER
1011121112,	010 9720		2615	
			DATE MAILED: 05/17/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/478,136	HOUSE, DAVID WILLIAM			
Office Action Summary	Examiner	Art Unit			
	Suhan Ni	2615			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be t eply within the statutory minimum of thirty (30) da bd will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>04 May 2006</u> .					
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 7-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 7-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume	nts have been received. nts have been received in Applica iority documents have been receiv	tion No			
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_	SUHAN NI ST PRIMARY EXAMINER			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
Notice of Dransperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

1. The Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2615.

- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission for RCE filed on 03/08/2006 has been entered.
- 3. This communication is responsive to the applicant's amendment filed on 03/08/2006.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant Admitted Prior Art (AAPA) in view of Lippa et al. (U.S. Pat. 6,377,693).

Regarding claims 7, 10 and 13-14, the AAPA discloses a cochlear implant system (Fig. 1) comprising: at least one electrode (36) for coupling with the patient's cochlea (30); an internal coil (40) for implanting in the patient to drive the electrode; a microphone (54) for outputting electrical sound signals in response to external sounds; an oscillator (50) for generating an electrical analog carrier signal having a frequency 16 kHz; a modulator (50) for modulating the

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carrier signal with the sound signals to generate a modulated signal; and an external coil (56) for magnetically coupling the modulated signal to the internal coil, wherein the modulated signal is electrically directly applied to the cochlea (Fig. 1) as claimed. But the AAPA does not clearly teach a modulation frequency being over 20 KHz (or ULTRASONIC Modulation) as claimed. Lippa et al. disclose a similar structured system (Fig. 2), comprising a microphone (22), an ultrasonic modulator (12) and an applicator (16) for directly applying the modulated signal to a selected portion of the body. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to provide ultrasonic modulation for the system, in order to provide

Regarding claims 8-9 and 11-12, none of the prior art clearly teaches in detail of modulations as claimed. Since providing AM or FM for modulating an acoustic signal is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to provide AM or FM for modulating the signal for the system, in order to efficiently and effectively transfer the signal.

a hearing device with less interference, such as with tinnitus masking.

Response to Amendment

5. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Suhan Ni** whose telephone number is (571)-272-7505, and the number for fax machine is (571)-273-7505. The examiner can normally be reached on Monday

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through Thursday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, Sinh N. Tran, can be reached at (571)-272-7564.

- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- 8. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600, or please see http://www.uspto.gov/web/info/2600.

5/4/2006

SUHAN NI PRIMARY EXAMINET